

WHAT IS CLAIMED IS:

1. A medical implant, comprising:  
a body including a conical portion, the body adapted for implantation into a person's body; and  
5 a plurality of threads formed around an exterior surface of the conical portion of the body and adapted to help secure the implant in place within the person's body.
2. The medical implant of Claim 1, wherein:  
the medical implant is a subtalar implant adapted for implantation into the  
10 person's body and sized to fit within a sinus tarsi of a subtalar joint in the person's body for at least partially preventing displacement of the talus associated with the subtalar joint; and  
the plurality of threads are adapted to help secure the implant within the sinus  
tarsi.
- 15 3. The medical implant of Claim 2, wherein the conical portion of the body has a taper of approximately 18 degrees.
4. The medical implant of Claim 2, wherein the conical portion of the  
20 body has a taper measuring between 10 degrees and 30 degrees.
5. The medical implant of Claim 4, further comprising an engagement formed in a trailing end of the body and adapted to receive a tool for rotating the implant about a longitudinal axis of the implant for implantation of the implant into  
25 the sinus tarsi.
6. The medical implant of Claim 5, wherein each of one or more of the plurality of threads comprises a thread height and a crest having a crest width, wherein the ratio of the crest width to the thread height is at least 0.3.

7. The medical implant of Claim 5, wherein each of one or more of the plurality of threads comprises a crest having a crest width, wherein the ratio of the crest width to the pitch of the one or more threads is at least 0.15.

5           8. The medical implant of Claim 5, further comprising a thread root between each adjacent pair of the plurality of threads, the thread root having a width between 0.020 and 0.040 inches.

10           9. The medical implant of Claim 5, wherein the body further comprises an additional conical portion and a cylindrical portion separating the conical portion from the additional conical portion.

15           10. The medical implant of Claim 9, wherein:  
the conical portion of the body includes a first end and a second end opposite the first end; and  
the body further comprises a slot extending from the first end of the conical portion at least substantially to the second end of the conical portion.

20           11. The medical implant of Claim 10, wherein:  
the additional conical portion of the body includes a first end and a second end opposite the first end; and  
the body further comprises an additional slot extending from the first end of the additional conical portion at least substantially to the second end of the additional conical portion.

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12. The medical implant of Claim 5, wherein:

each of one or more threads has a thread angle of approximately 60 degrees and comprises a thread height and a crest having a crest width, wherein the ratio of the crest width to the thread height is at least 0.3; and

5 the implant further comprises a thread root between each adjacent pair of threads, the thread root having a root width between 0.020 and 0.040 inches.

13. The medical implant of Claim 12, wherein:

the conical portion of the body has a taper of approximately 18 degrees;

10 the thread height of each of the one or more threads is approximately 0.032 inches;

the root width between each adjacent pair of threads is approximately 0.030 inches; and

the pitch of the one or more threads is approximately 0.090 inches.

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14. The medical implant of Claim 12, wherein:

the conical portion of the body has a taper of 18 degrees;

the thread height of each of the one or more threads is 0.032 inches;

the root width between each adjacent pair of threads is 0.030 inches; and

20 the pitch of the one or more threads is 0.090 inches.

15. The medical implant of Claim 12, wherein:

the conical portion of the body has a taper of approximately 18 degrees;

25 the thread height of each of the one or more threads is approximately 0.041 inches;

the root width between each adjacent pair of threads is approximately 0.030 inches; and

the pitch of the one or more threads is approximately 0.100 inches.

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16. The medical implant of Claim 12, wherein:
- the conical portion of the body has a taper of 18 degrees;
- the thread height of each of the one or more threads is 0.041 inches;
- the root width between each adjacent pair of threads is 0.030 inches; and
- 5 the pitch of the one or more threads is 0.100 inches.

17. A method of forming a medical implant, comprising:  
providing a body including a conical portion, the body adapted for  
implantation into a person's body; and  
forming a plurality of threads around an exterior surface of the conical portion  
5 of the body and adapted to help secure the implant in place within the person's body.

18. The method of Claim 17, wherein:  
the medical implant is a subtalar implant adapted for implantation into the  
person's body and sized to fit within a sinus tarsi of a subtalar joint in the person's  
10 body for at least partially preventing displacement of the talus associated with the  
subtalar joint; and  
the plurality of threads are adapted to help secure the implant within the sinus  
tarsi.

19. The method of Claim 18, wherein the conical portion of the body has a  
15 taper of approximately 18 degrees.

20. The method of Claim 18, wherein the conical portion of the body has a  
20 taper measuring between 10 degrees and 30 degrees.

21. The method of Claim 20, further comprising forming an engagement in  
a trailing end of the body, the engagement being adapted to receive a tool for rotating  
the implant about a longitudinal axis of the implant for implantation of the implant  
into the sinus tarsi.

22. The method of Claim 21, wherein forming the plurality of threads  
comprises forming one or more threads each comprising a thread height and a crest  
having a crest width, wherein the ratio of the crest width to the thread height is at least  
0.3.

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23. The method of Claim 21, wherein forming the plurality of threads comprises forming one or more threads, each comprising a crest having a crest width, wherein the ratio of the crest width to the pitch of the one or more threads is at least 0.15.

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24. The method of Claim 21, further comprising forming an additional conical portion and a cylindrical portion separating the conical portion from the additional conical portion.

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25. The method of Claim 24, further comprising forming a slot extending from a first end of the conical portion at least substantially to a second end of the conical portion opposite the first end.

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26. The method of Claim 25, further comprising forming an additional slot extending from a first end of the additional conical portion at least substantially to a second end of the additional conical portion opposite the first end of the additional conical portion.

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27. The method of Claim 21, wherein:  
forming the plurality of threads comprises forming one or more threads each having a thread angle of approximately 60 degrees and comprising a thread height and a crest having a crest width, wherein the ratio of the crest width to the thread height is at least 0.3; and

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the implant further comprises a thread root between each adjacent pair of threads, the thread root having a root width between 0.020 and 0.040 inches.

28. The method of Claim 27, wherein:

the conical portion of the body has a taper of approximately 18 degrees;

the thread height of each of the one or more threads is approximately 0.032 inches;

5 the root width between each adjacent pair of threads is approximately 0.030 inches; and

the pitch of the one or more threads is approximately 0.090 inches.

29. The method of Claim 27, wherein:

10 the conical portion of the body has a taper of 18 degrees;

the thread height of each of the one or more threads is 0.032 inches;

the root width between each adjacent pair of threads is 0.030 inches; and

the pitch of the one or more threads is 0.090 inches.

15 30. The medical implant of Claim 27, wherein:

the conical portion of the body has a taper of approximately 18 degrees;

the thread height of each of the one or more threads is approximately 0.041 inches;

20 the root width between each adjacent pair of threads is approximately 0.030 inches; and

the pitch of the one or more threads is approximately 0.100 inches.

31. The medical implant of Claim 27, wherein:

the conical portion of the body has a taper of 18 degrees;

25 the thread height of each of the one or more threads is 0.041 inches;

the root width between each adjacent pair of threads is 0.030 inches; and

the pitch of the one or more threads is 0.100 inches.